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PN - EP1127846 A 20010829

PD - 2001-08-29

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TI - Process for reducing biological pollutants in a water circulation system

AB - The invention relates to a method for reducing biological contaminants in a water-bearing system ( 3) that contains an installation part susceptible to corrosion (19). To reduce the biological contaminant, a biocide (11) is added to the water-bearing system ( 3). The concentration of said biocide is locally reduced in the vicinity of the installation part ( 19) susceptible to corrosion, thus producing a less corrosive effect on said installation part ( 19). The biocide (11) is preferably degraded by the addition of hydrogen peroxide.

IN - SCHMITZ FRIEDHELM (DE); BARNIKEL JOCHEN DR-ING (DE); REITZNER KARL UVE DIPL-ING (DE)

PA - SIEMENS AG (DE)

ICO - M02F1/70 ; M02F1/72C ; M02F1/76 ; M02F1/76G ; M02F103/02B

EC - C02F1/50 ; F28F25/00

IC - C02F1/50 ; C02F1/72 ; C02F1/70

CT - US 5252300 A [X]; US 5236673 A [X]; GB2289672 A [A]; WO9304986 A [A]; EP0590184 A [A]

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TI - Reduction of biological impurities in water circulation system containing several components comprises adding biocide to water at position close to corrosion-critical component and in amount adjusted to its susceptibility to corrosion

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PA - (SIEI ) SIEMENS AG

IC - C02F1/50 ; C02F1/70 ; C02F1/72

IN - BARNIKEL J; REITZNER K U; SCHMITZ F; REITZNER U

AB - EP1127846 NOVELTY - Reduction of biological impurities in a water circulation system ( 3) containing several components ( 5, 19) comprises adding biocide (11) to the water (7) at a position close to the corrosion-critical component (19) and in an amount adjusted to its susceptibility to corrosion.  
- DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a water circulation system containing a corrosion-critical component, a biocide feed ( 12) and a second feed (15) for a substance which decomposes the biocide positioned before the corrosion-critical component to reduce the biocide concentration.  
- USE - In drinking water systems and in the cooling water circuits of steam turbines in power stations (claimed).  
- ADVANTAGE - Corrosion of the components in the circuit by the biocide is reduced.  
- DESCRIPTION OF DRAWING(S) - The drawing shows the cooling water circuit of a steam turbine power station.  
- Water circulation system 3  
- Water 7  
- Biocide 11  
- Biocide feed 12  
- Hydrogen peroxide feed 15  
- Condenser (corrosion-critical component) 19  
- (Dwg. 1/1)

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none

none

none

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none

none

none